AMENDMENT

In the claims:

For the Examiner's convenience, all pending claims are presented below with changes shown in accordance with the new mandatory amendment format.

1. (Currently Amended) A computer system comprising:

a processor including:

a central processing unit (CPU) core to execute non-graphic instructions;

a graphics core to compute graphical transformations via supersampling

techniques; and

a unified graphics cache coupled to the graphics core, wherein the unified

graphics cache stores texture data, color data and depth data to store a

supersampled image.

2. (Original) The computer system of claim 1 wherein the graphics cache

comprises:

a texture cache to store texture data; and

a color and depth buffer to store the color data and the depth data.

3. (Previously Presented) The computer system of claim 1 further comprising:

a CPU cache coupled to the CPU core.

4. (Original) The computer system of claim 3 further comprising a bus interface

coupled to the CPU cache and the graphics cache.

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- 5. (Previously Presented) The computer system of claim 1 wherein the graphics core performs rendering according to a tile-based rendering architecture.
- 6. (Previously Presented) The computer system of claim 1 further comprising:
 a bus interface coupled to CPU cache and the graphics cache; and
 a main memory coupled to the bus interface.
- 7. (Original) The computer system of claim 2 wherein the graphics core amplifies image polygons and renders the polygons into the graphics cache.
- 8. (Previously Presented) The computer system of claim 7 wherein amplification of the image polygons are implemented via viewport transformation.
- 9. (Original) The computer system of claim 7 wherein the graphics core downsamples the image polygons after the polygons have been rendered.
- 10. (Original) The computer system of claim 9 wherein the downsampling of the image polygons are implemented by executing a bit aligned block transfer.
- 11. (Previously Presented) A method for supersampling an image comprising: receiving polygons of a first tile of the image at a graphics core; and amplifying the polygons at the graphics core;

rendering the polygons of the first tile into a unified graphics cache, wherein the unified graphics cache stores texture data, color data and depth data of the image.

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- 12. (Previously Presented) The method of claim 11 further comprising executing a stretch aligned block transfer at the graphics core after rendering the polygons.
- 13. (Previously Presented) The method of claim 11 wherein the polygons are amplified four times the original size of the image.
- 14. (Previously Presented) The method of claim 11 wherein the amplification is achieved using viewport transformation.
- 15. (Original) The method of claim 11 wherein the process of rendering the polygons comprises:
 setting up the image polygons; and
 rasterizing pixels within the image polygons.
- 16. (Original) The method of claim 15 further comprising texturing the pixels within the image polygons.
- 17. (Original) The method of claim 11 further comprising downsampling the polygons after the polygons have been rendered.
- 18. (Original) The method of claim 17 wherein the downsampling is achieved by executing a bit aligned block transfer.
- 19. (Original) The method of claim 11 further comprising: determining whether the unified graphics cache includes more tiles that are to be rendered; and



if so, receiving polygons of a second tile of the image at the graphics core; and rendering the polygons of the second tile into the unified graphics cache.

20. (Currently Amended) A central processing unit (CPU) comprising:
a CPU core to execute non-graphic instructions;
CPU cache coupled to the CPU core;
a graphics accelerator to compute graphical transformations via supersampling techniques; and
a unified graphics cache coupled to the graphics core and the CPU, to store texture data, color data and depth data a supersampled image.



- 21. (Original) The CPU of claim 20 wherein the graphics cache comprises:
 a texture cache to store texture data; and
 a color and depth buffer to store the color data and the depth data.
- 22. (Previously Presented) The CPU of claim 20 wherein the graphics core amplifies image polygons and renders the polygons into the graphics cache.
- 23. (Original) The CPU of claim 22 further comprising a bus interface coupled to the CPU cache and the graphics cache.
- 24. (Previously Presented) The CPU of claim 23 wherein the graphics accelerator performs rendering according to a tile-based rendering architecture.